

Existing Works — Source Material for Information on Environmental Impacts

Environmental Issues	Existing Hetch Hetchy Proposals								Relevant Reports			
	1987	1988	1988	1988	2004	2004	2004	2004	1995	2000	2000	2003
	Hetch Hetchy: Water and Power Replacement Concepts U.S. Bureau of Reclamation (USBR)	U.S. Department of Energy (DOE)	Restoring Hetch Hetchy Assembly Of fice of Research (AOR)	Alternatives for Restoration of Hetch Hetchy Valley National Park Service (NPS)	University of California, Davis (UCD)	Paradise Regained Environmental Defense (ED)	University of California, Berkeley (UCB)	South Delta Improvements Program EIR/EIS (USBR, DWR)	New Don Pedro Proceeding P-2299-024 Settlement Agreement	CALFED Final Programmatic EIS/EIR	CALFED Bay-Delta Program Programmatic Record of Decision	Order Deferring Action on Petition Pending Completion of Informal Consultation FERC
Aesthetics			1			1		3		3,4		
Agricultural Resources								3		3,4	3,4	
Air Quality								3		3,4		
Terrestrial Habitat and Species				1				3		3,4	3,4	
Aquatic Habitat, Wetlands and Fish	1,2,3			1				3	2	3,4	3,4	2
Cultural Resources	1,2,3							3		3,4		
Geology/Soils								3		3,4		
Materials								3		3,4		
Hydrology Water Quality	1,2,3		1,2,3,4		1,2	1,2,3,4		3	1,2	3,4	3,4	2
Flood Control								3	2	3,4	3,4	
Land Use / Planning	1,2,3		1,2,3,4			1,2,3,4		3		3,4		
Mineral Resources								3		3,4		
Noise								3		3,4		
Population / Housing								3		3,4		
Public Services								3		3,4		
Recreation: rafting, kayaking and fishing	1		1					3	1,2	3,4		
Traffic								3		3,4		
Utilities												
Service Systems	1,2,3		1,2,3,4		1,2,4	1,2,3,4		3		3,4		2

Numbers indicate geographic region: 1 = Hetch Hetchy System; 2 = Don Pedro Reservoir to Confluence of San Joaquin; 3 = San Joaquin River, Delta and Central Valley; 4 = Greater Bay Area

Note: Refereneecs idicated above indicate some discussion or information available; information cited is not neccessarily adequate.

Environmental Considerations

	Greater Bay Area [e.g. Calaveras or Los Vaqueros Reservoirs]				San Joaquin River, Delta Region and Central Valley				Don Pedro Reservoir to Confluence of San Joaquin		Hetch Hetchy System		
Geographic Area and Potentially Impacting Activity	Earth-Moving Activities	Changes in Flow Due to Water Year Type [e.g. wet year; dry year, etc.]	Water Use Efficiency	Energy Efficiency	Earth-Moving Activities	Changes in Flow Due to Water Year Type [e.g. wet year; dry year, etc.]	Operation of Alternative Energy Facilities	Groundwater Use	Conjunctive Use	Earth-Moving Activities	Changes in Flow Due to Water Year Type [e.g. wet year; dry year, etc.]	Earth Moving Activities	Changes in Flow Due to Water Year Type [e.g. wet year; dry year, etc.]
Aesthetics	✓	✓			✓	✓	✓			✓	✓	✓	✓
Agricultural Resources			✓			✓		✓	✓				
Air Quality	✓				✓		✓			✓		✓	
Terrestrial Habitat and Species	✓		✓	✓	✓		✓			✓		✓	
Aquatic Habitat, Wetlands and Fish	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
Cultural Resources	✓				✓					✓		✓	
Geology/ Soils								✓	✓				
Hazards & Hazardous Materials													
Hydrology													
Water Quality		✓	✓			✓		✓	✓		✓		✓
Flood Control		✓				✓					✓		✓
Land Use / Planning							✓	✓	✓				
Mineral Resources													
Noise	✓				✓					✓		✓	
Population / Housing													
Public Services													
Recreation										✓	✓	✓	✓
Transportation													
Traffic					✓					✓		✓	
Utilities													
Service Systems			✓	✓			✓	✓	✓				

Sensitive species which may be impacted by replacement of water and power supplies

If new construction is needed to replace Hetch Hetchy water and power supplies, sensitive species may be negatively impacted. However, the species impacted and level of impact is dependent upon the location and type of replacement facilities, and impacts cannot be realistically assessed until such time as those locations and facilities are known. For now, the following is merely a guide to a few of the species that may be affected in each of the four impact areas, and is not meant to be complete.

Hetch Hetchy System

At Hetch Hetchy Valley, peregrine falcons (SE) have nested near the dam, and bald eagles (FT, SE) are known to use the reservoir for winter foraging. In the larger area around Hetch Hetchy the following species are a few that could be impacted: Yosemite toad (SSC), mountain yellow-legged frog (FE), great gray owl (SE), northern goshawk (SSC), and Sierra Nevada red fox (ST).

Don Pedro Reservoir to confluence of San Joaquin River

The following species occur in the area between Don Pedro and the San Joaquin River, and are representative of those that may be negatively impacted: California tiger salamander (FT), tricolored blackbird (SSC), Swainson's hawk (ST) and San Joaquin kit fox (FE, ST).

San Joaquin River, Delta Region and Central Valley

This area is home to scores of sensitive species, both aquatic and terrestrial. Some of the more high-profile species include: several species of fairy shrimp, Valley elderberry longhorn beetle (FT), Chinook salmon (FT), delta smelt (FT, ST), steelhead (FT), California red-legged frog (FT), giant garter snake (FT, ST), Swainson's hawk (ST), San Joaquin kit fox (FE, ST).

Greater Bay Area (e.g. Calaveras or Los Vaqueros reservoirs)

In the greater Bay Area, there are many sensitive species, of which the following are just a few that may be impacted: Bay checkerspot butterfly (FT), steelhead (FT), California tiger salamander (FT), California red-legged frog (FT), Alameda whipsnake (FT, ST), San Francisco garter snake (FE, SE), western snowy plover (FT), California clapper rail (FE, SE), and salt marsh harvest mouse (FE, SE).

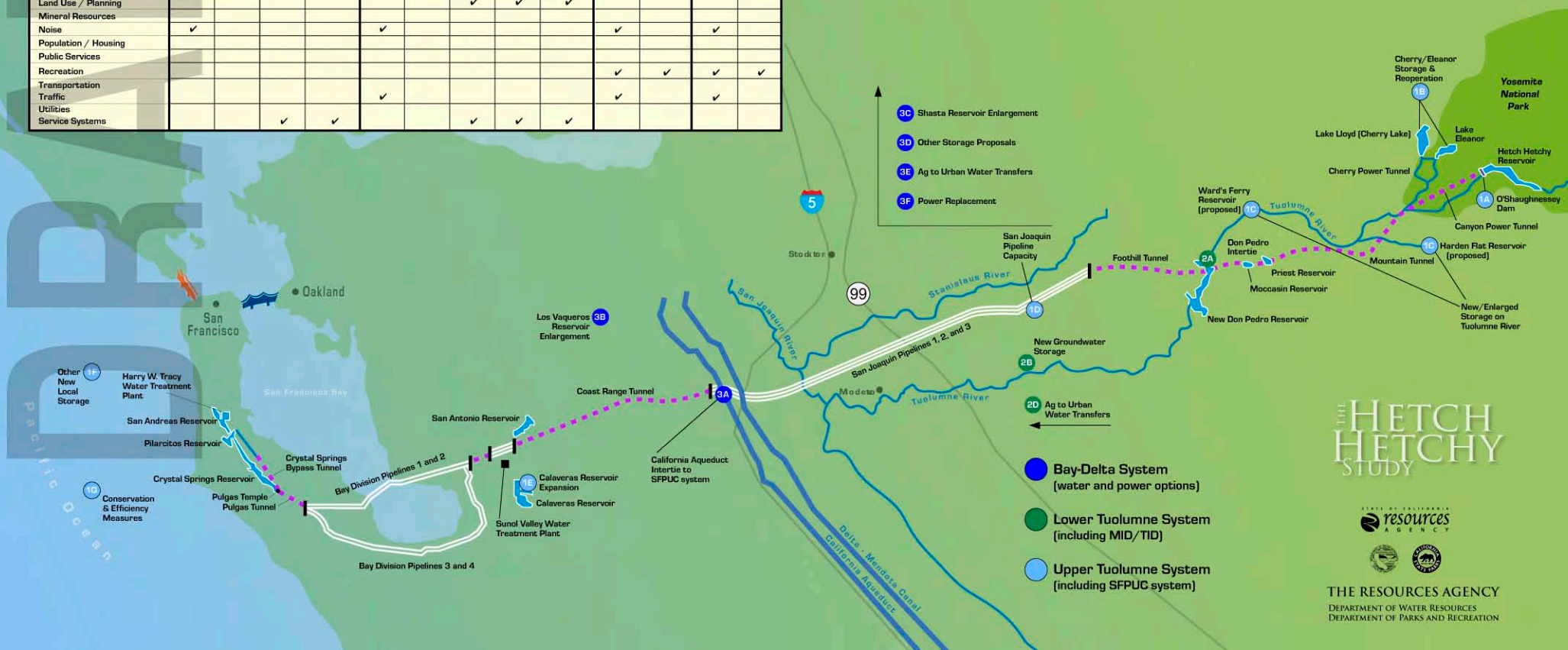
FT=Federal Threatened

FE=Federal Endangered

SSC=State Species of Concern

ST=State Threatened

SE=State Endangered



THE HETCH HETCHY STUDY



THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
DEPARTMENT OF PARKS AND RECREATION